

List of All Chemicals

P Cephalotaxus harringtonii (Cephalotaxaceae)

Common name(s)

Japanese Plum Yew

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
11-HYDROXYCEPHALOTAXINE	Plant	--	--		*
3-EPISCHELHAMMERICINE	Bark	--	--		*
CEPHALOTAXINE	Tissue Culture	0.8	28.5		*
Activities (1)					
Antileukemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
CEPHALOTAXINONE	Plant	--	--		*
DEOXYHARRINGTONINE	Plant	--	--		*
Activities (2)					
Antileukemic					
Antitumor	Martindale's 29th				
DESMETHYLCEPHALOTAXINE	Leaf	--	--		*
DRUPACINE	Plant	--	--		*
HARRINGTONINE	Tissue Culture	--	0.2		*
Activities (8)					
Anticarcinomic 0.5-1 ppm					
Antileukemic (2 ppm), 2-4 mg	Martindale's 29th				
Antimelanomic ED50=0.077 ug/ml	J. Ethnopharmacology, 32: 117.				
Antisarcinomic ED50=0.01 ug/ml	J. Ethnopharmacology, 32: 117.				
Antitumor (Breast) ED50=0.017 ug/ml	J. Ethnopharmacology, 32: 117.				
Antitumor (Colon) ED50=0.014 ug/ml	J. Ethnopharmacology, 32: 117.				
Antitumor (Lung) ED50=0.036 ug/ml	J. Ethnopharmacology, 32: 117.				
DNA-Synthesis-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
HARRINGTONINE	Fruit	--	500.0		*
Activities (8)					
Anticarcinomic 0.5-1 ppm					
Antileukemic (2 ppm), 2-4 mg	Martindale's 29th				
Antimelanomic ED50=0.077 ug/ml	J. Ethnopharmacology, 32: 117.				
Antisarcinomic ED50=0.01 ug/ml	J. Ethnopharmacology, 32: 117.				
Antitumor (Breast) ED50=0.017 ug/ml	J. Ethnopharmacology, 32: 117.				
Antitumor (Colon) ED50=0.014 ug/ml	J. Ethnopharmacology, 32: 117.				
Antitumor (Lung) ED50=0.036 ug/ml	J. Ethnopharmacology, 32: 117.				
DNA-Synthesis-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
HOMO-ERYTHRINA-ALKALOID	Tissue Culture	0.2	6.5		*
HOMODEOXYHARRINGTONINE	Tissue Culture	--	--		*

Activities (12)

Anticarcinomic 0.25-1 ppm

Antileukemic 1 ppm

Antimalarial Nigg, H.N. and Seigler, D.S., eds. 1992. *Phytochemical Resources for Medicine and Agriculture*. Plenum Press, New York. 445 pp.

Antimejanomic ED50=0.045 ug/ml J. Ethnopharmacology, 32: 117.

Antisarcinomic ED50=2.15 ug/ml J. Ethnopharmacology, 32: 117.

Antitumor Vlietinck, A.J. and Dommissie, R.A. eds. 1985. *Advances in Medicinal Plant Research*. Wiss. Verlag. Stuttgart.

Antitumor (Breast) ED50=0.012 ug/ml J. Ethnopharmacology, 32: 117.

Antitumor (Colon) ED50=0.0076 ug/ml J. Ethnopharmacology, 32: 117.

Antitumor (Lung) ED50=0.019 ug/ml J. Ethnopharmacology, 32: 117.

Hypotensive Martindale's 29th

MDR-Inhibitor Qian, Q. J., Han, J. L., Yan, W. W., Yang, C. Z., Han, D. S., Shi, H., Hao, Y. 1996. A Comparative Study on the Mechanism of Homoharringtonine (HHI) and Melphalan (MEL) Resistance in K562/H20 and K562/MEL Cell Lines. *Zhonghua Xueyexue Zazhi*, 17(7):354-356.

Tachycardic Martindale's 29th

ISOHARRINGTONINE

Tissue Culture

0.2

1.5

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Activities (2)

Anticancer

Antileukemic Martindale's 29th

KAYAFLAVONE

Plant

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SCHELHAMMERA-ALKALOID

Stem

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SCHELHAMMERA-ALKALOID-B-METHYL-ETHER

Stem

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